



#411

OGO-4

SECOND BY SECOND AIRGLOW DATA

67-073A-12P



060 4

SEC. BY SEC. AIRGLOW

67-073A-12F

THIS DATA SET HAS BEEN RESTORED. THERE WERE ORIGINALLY 45
9-TRACK, 1600 BPI TAPES. WRITTEN IN BINARY. THERE ARE 12
RESTORED TAPES. THE DR TAPES ARE 3480 CARTRIDGES AND THE DS
TAPES ARE 9-TRACK, 6250 BPI. THE TAPES WERE ORIGINALLY
CREATED ON AN IBM 360 COMPUTER. THE DR AND DS NUMBERS ALONG
WITH THE CORRESPONDING D NUMBERS AND TIME SPANS ARE AS FOLLOWS:

<u>DR#</u>	<u>DS#</u>	<u>DD#</u>	<u>FILES</u>	<u>TIME SPAN</u>
DR02747	DS02747	D29906	1-159	07/29/67 - 08/01/67 (a)
		D29905	160-426	08/02/67 - 08/08/67
		D29907	427-714	08/13/67 - 08/17/67
		D29909	715-965	08/22/67 - 08/28/67
DR02748	DS02748	D29910	1-225	08/28/67 - 09/03/67
		D29911	226-495	09/09/67 - 09/18/67
		D29912	496-758	09/18/67 - 09/22/67
DR02749	DS02749	D29913	1-300	10/12/67 - 10/17/67
		D29914	301-588	10/17/67 - 10/22/67
		D29915	589-905	10/27/67 - 11/02/67
DR02750	DS02750	D29916	1-312	11/02/67 - 11/07/67
		D29917	313-558	11/07/67 - 11/13/67
		D29918	559-681	11/13/67 - 11/18/67
		D29919	682-866	11/18/67 - 11/21/67
DR02751	DS02751	D29920	1-153	12/09/67 - 12/12/67
		D29921	154-306	12/12/67 - 12/16/67
		D29922	307-543	12/16/67 - 12/20/67
		D29923	544-746	05/29/68 - 06/04/68
DR02752	DS02752	D29924	1-165	06/04/68 - 06/09/68
		D29925	166-234	06/09/68 - 06/15/68
		D29926	235-411	06/15/68 - 06/17/68
		D29927	412-668	06/17/68 - 06/23/68
DR02753	DS02753	D29928	1-168	06/23/68 - 06/29/68
		D29929	169-411	06/29/68 - 07/04/68
		D29930	412-591	07/04/68 - 07/10/68
		D29931	592-776	07/10/68 - 07/14/68

67-073A-12P

<u>DR#</u>	<u>DS#</u>	<u>DD#</u>	<u>FILES</u>	<u>TIME SPAN</u>
DR02754	DS02754	D29932	1-180	07/14/68 - 07/19/68
		D29933	181-327	07/19/68 - 07/23/68
		D29934	328-430	07/23/68 - 07/25/68
		D29935	431-641	07/25/68 - 07/27/68
DR02755	DS02755	D29936	1-180	07/27/68 - 07/31/68
		D29937	181-300	07/31/68 - 08/03/68
		D29938	301-402	08/03/68 - 08/06/68
		D29939	403-533	08/06/68 - 08/08/68
DR02756	DS02756	D29940	1-168	08/08/68 - 08/11/68
		D29941	169-534	08/11/68 - 08/14/68
		D29942	535-696	08/14/68 - 08/23/68
		D29943	697-851	08/23/68 - 08/27/68
DR02757	DS02757	D29944	1-186	08/27/68 - 08/30/68
		D29945	187-360	08/30/68 - 09/03/68
		D29946	361-561	09/03/68 - 09/07/68 (b)
		D29947	562-738	09/07/68 - 09/11/68
DR02758	DS02758	D29948	1-207	09/16/68 - 09/21/68
		D29950	208-411	09/27/68 - 10/02/68

(a) I/O ERRORS FILE 1, RECORD 1 & 160; FILE 159, RECORD 426.

(b) I/O ERROR FILE 58, RECORD 1.

DD29949 WAS A BAD TAPE

REQ. AGENT
CAW

RAND NO.
RC8015

ACQ. AGENT-
RNH

OGO-4

SECOND BY SECOND AIRGLOW DATA

67-073A-12P

This data set catalog consists of 45 data tapes created from the IBM 360 computer. All the tapes are 9 track, 1600, Binary, and multi-filed. The tapes are all standard labeled. The D and C numbers along with the number of files and time spans are listed below. The format for the SSB tapes are on the following pages.

<u>D#</u>	<u>C#</u>	<u>FILES</u>	<u>TIME SPAN</u>
D-29905	C-19351	207	08/02/67 - 08/08/67
D-29906	C-19352	159	07/29/67 - 08/01/67
D-29907	C-19353	267	08/13/67 - 08/17/67
D-29909	C-19354	288	08/22/67 - 08/28/67
D-29910	C-19355	252	08/28/67 - 09/03/67
D-29911	C-19356	225	09/09/67 - 09/18/67
D-29912	C-19357	270	09/18/67 - 09/22/67
D-29913	C-19358	264	10/12/67 - 10/17/67
D-29914	C-19359	300	10/17/67 - 10/22/67
D-29915	C-19360	288	10/27/67 - 11/02/67
D-29916	C-19361	318	11/02/67 - 11/07/67
D-29917	C-19362	312	11/07/67 - 11/13/67
D-29918	C-19363	246	11/13/67 - 11/18/67
D-29919	C-19364	123	11/18/67 - 11/27/67
D-29920	C-19365	186	12/09/67 - 12/12/67
D-29921	C-19366	153	12/12/67 - 12/16/67

<u>D#</u>	<u>C#</u>	<u>FILE #</u>	<u>TIME SPAN</u>
D-29922	C-19367	153	12/16/67 - 12/20/67
D-29923	C-19368	237	05/29/68 - 06/04/68
D-29924	C-19369	204	06/04/68 - 06/09/68
D-29925	C-19370	165	06/09/68 - 06/15/68
D-29926	C-19371	69	06/15/68 - 06/17/68
D-29927	C-19372	207	06/17/68 - 06/23/68
D-29928	C-19373	228	06/23/68 - 06/29/68
D-29929	C-19374	168	06/29/68 - 07/04/68
D-29930	C-19375	243	07/04/68 - 07/10/68
D-29931	C-19376	180	07/10/68 - 07/14/68
D-29932	C-19377	186	07/14/68 - 07/19/68
D-29933	C-19378	180	07/19/68 - 07/23/68
D-29934	C-19379	147	07/23/68 - 07/25/68
D-29935	C-19561	153	07/25/68 - 07/27/68
D-29936	C-19562	162	07/27/68 - 07/31/68
D-29937	C-19563	180	07/31/68 - 08/03/68
D-29938	C-19564	120	08/03/68 - 08/06/68
D-29939	C-19565	108	08/06/68 - 08/08/68
D-29940	C-19566	126	08/08/68 - 08/11/68
D-29941	C-19567	168	08/11/68 - 08/14/68
D-29942	C-19568	366	08/14/68 - 08/23/68
D-29943	C-19569	162	08/23/68 - 08/27/68
D-29944	C-19570	156	08/27/68 - 08/30/68
D-29945	C-19571	186	08/30/68 - 09/03/68
D-29946	C-19572	174	09/03/68 - 09/07/68
D-29947	C-19573	201	09/07/68 - 09/11/68

<u>D#</u>	<u>C#</u>	<u>FILE #</u>	<u>TIME SPAN</u>
D-29948	C-19574	177	09/16/68 - 09/21/68
D-29949	C-19575	207	09/21/68 - 09/26/68
D-29950	C-19576	204	09/27/68 - 10/02/68

OUCH/SSB

TYPES OF RECORDS ON CUCH AND SSB TAPES

First word	length (4-byte words)	type
1	30 -	label record
2	2728 (max)	second record
3	30 -	minute summary
4	23	calibration record
5	30 -	file summary
6	30	subcom data
7	30 -	label record embedded in file (SSB only)
9999	80	last file on this tape, remaining words are 9999's

627-74

SSB tapes

10916

21836

DCB=(RECFM=WBS,LRECL=10836,BLKSIZE=21676,DEN=3):

Record format: variable blocked spanned

Maximum record length: 2729 words

LRECL = 6684

Block size: 21676 bytes

Density: 1600 bpi

Words 2 and 3 of record types 1, 3, 4, and 5 should be the same as the label of the tape on which the record is written.

Handwritten notes:
12...
17
18
19
20
21
22
23
24
25
26
27
28
29
30

Handwritten notes:
20
21
22
23
24
25
26
27
28
29
30

Label Record

Word	Contents
1	1 if first record of file; 7 if embedded within a file
2	tape label
3	tape label (cont.)
4	6773 satellite ID for OGO-IV
5	1 satellite ID (cont.)
6	year, last two digits
7	station number
8	analog file
9	analog tape
10	buffer file
11	buffer tape
12	day of digitization
13	bit rate
14	start day
15	start seconds
16	start seconds (cont.)
17	format
18	edit tape
19	edit file
20	A/D line operator
21	A/D line
22	decom reel
23	decom run
24	experiment
25	equipment group

I #4

[Handwritten scribble]

[Handwritten text: X14, I10, (127-3)]

Label Record (cont.)

Word	Contents
26	number of seconds since Jan. 1, 1967
27	date of prog. 2 processing, year, month, day
28	ouch or SXS file number
29	date of SXS processing, year, month, day
30	decom file number

SSB } I x 4

Words 2-25 are EBCDIC. The remaining words are integer

Second Record

Word	Contents	In SSB
1	2	
2	Bias for playback data <i>(was uncorrected U.T)</i>	
3	spacecraft clock	
4	Bias for realtime data	
5	corrected Universal time	RT record
6	day - <i>doesn't change as it should on OUCHTops</i>	
7	year	
8	mirror position	
9	=0 if fixed, =1 if stepping	
10	=0 if photocurrent, =1 if dark current	
11	number of samples	recompute
12 real	temperature, degrees C.	RT record
13 real	average electrometer output	recompute
14 real	average dark current <i>(ave 3rd word) - crosstalk</i>	recompute
15 real	average cross talk	RT record
16 real	average photocurrent (Ave ^{2nd} word _{words} 3rd) word 15	recompute ←
17 real	channel 4 correction for background emissions	RT record
18 real	airglow in volts (word 16 - word 17)	recompute
19	number of seconds since Jan. 1, 1967	
20	Ave log word, if dark current	RT record

for dark current:

for photocurrent:

21	time (uncorrected)	time (uncorrected) milliseconds	recompute all times
22	electrometer output real	electrometer output real	
23	dark current <i>(incl x tied)</i> real		

Words 21-22 or words 21-23 are repeated for each sample, up to a maximum of 690 samples. All words not specified as real are integer.

Minute Summary

Dec. 10, 1970
 May 6, 1971
 Apr 3, 1972

Word	Content		
1	3	integer	SSB
2	tape label	EBCDIC	
3	tape label (cont.)	EBCDIC	
4	time, millisecond, end of minute, last sample	integer	
5	last spacecraft clock	integer	
6	Universal time (corrected) of last second	integer	
7	bias of last second	integer	
8	average temperature, degrees C.	real	
9	ACS Mode, most recent	EBCDIC	From most recent subcom record
10	minimum scan head angle	real	
11	maximum scan head angle	real	
12	number of samples in preceding minute	integer	
13	number of bit errors in preceding minute	integer	
14	number of MP 1 seconds photocurrent	integer	
15	" 2 "	integer	
16	" 3 "	integer	
17	" 4 "	integer	
18	" 5 "	integer	
19	" 6 "	integer	
20	" 7 "	integer	
21	" dark current seconds	integer	
22	⁹⁵⁶ SXS record number in this decom file (or OUCH)	integer	
23	number of seconds for temperature = 0	integer	
24	number of seconds since Jan. 1, 1967 (word 6)	integer	
25	total number of seconds of data in this minute	integer	
26 - 30	0 spares		

Calibration Record

Word	Content
1	4
2	tape label
3	tape label (cont.)
4	year (two digits)
5	day of year
6	decom run number
7	format number
8	bit rate
9	universal time, milliseconds, uncorrected
10	temperature, degrees centigrade
11	dark current
12	MP1
13	MP2
14	MP3
15	MP4
16	MP5
17	MP6
18	MP7
19	MPO
20	high electrometer zero
21	medium electrometer zero
22	low electrometer zero
23	log

- RT records
copied

Words 2 and 3 are EBCDIC; words 1, 4-9 are integer, 10 - 23 are real.

File Summary

Word	Content
1	5
2	tape label
3	tape label (cont.)
4	start time, milliseconds
5	end time milliseconds
6	number of minutes in ACS Mode 3C
7	total number of bit errors in decom file
8	total number of samples
9	total number of seconds in MP1 photocurrent
10	" " " MP2 "
11	" " " MP3 "
12	" " " MP4 "
13	" " " MP5 "
14	" " " MP6 "
15	" " " MP7 "
16	" " " dark current
17	total number of records in this decom file
18	number of minute summary records in this decom file
19-30	=0 spares
	No of records for which BIAS \neq 0

Oct 18, 1972
 Oct 14 1973

Words 2 and 3 are EBCDIC, all remaining words are integer.

SUBCOM DATA

Word	Content	Source	Type
1	6		integer
2	time in milliseconds(uncorrected)	ACSTIM	integer
3	day of year	IPIUF(3,1)	integer
4	(98,82) 3 volts	4	integer
5	(99,81) 0.5	5	integer
6	(98,83) 1.7	6	integer
7	(99,82) 2.64	7	integer
8	(98,84) 3.18	8	integer
9	(99,83) 4.12	9	integer
10	(98,85) 5.06	10	integer
11	(98,48) Load Bus Voltage	11	integer
12	(99,39) Temp. -X Panel	12	integer
13	(99,43) Temp. OPEP 1 (+Z)	13	integer
14	(97,94) Temp. Main Body Photometer	TEMP(2)	real
15	(97,95) Temp. OPEP Package	IPIUF(15,1)	integer
16	(97, 8) Shutter Status	16	integer
17	(98,25) Pitch Error Signal	17	integer
18	(98,26) Roll Error Signal	18	integer
19	(98,41) Horizon Scanner Track Heads	19	integer
20	(98,42) Yaw Error Signal	20	integer
21	(98,42) Array Error Signal	21	integer
22	(98,54) ACS Mode	IACS	EBCDIC
23	(98, 7) Array Shaft Angle,Sine	IPIUF(23,1)	integer
24	(98, 8) Array Shaft Angle,Cosine	24	integer
25	(98, 6) Scan Head C Angle	SCAN(1)	real
26	(98,23) Scan Head B Angle	SCAN(2)	real

SUBCOM DATA (cont.)

Word	Content	Source	Type
27	(98,72) Scan Head D Angle	SCAN(3)	real
28	(98,81) Scan Head A Angle	SCAN(4)	real
29	Bit rate (0 to 3)		integer
30	First spacecraft clock in record	IPUF(1,2)	integer

} later
addition
range 0-3

5B
RECORD TYPES ON 9-TRACK ATTITUDE-ORBIT TAPE

TYPE

- 20 AO data for integer minute
- 21 AO data for ascending node
- 22 AO data for north point
- 23 AO data for descending node
- 24 AO data for south point
- 25 AO data for shadow entry
- 26 AO data for shadow exit
- 27 AO data for moonrise
- 28 AO data for moonset
- ~~29 AO data for eclipse start and stop as computed by IPD~~

40 AO label record data

~~49 no data for this orbit, remaining words are 0.0~~

~~9999 last file on this tape, remaining words are 9999~~

~~Each file consists of the label and data for one orbit.~~

~~Record format : fixed, blocked~~

Record length: 320 bytes

Block size: 16000 bytes

Density: 1600 bpi (DEN=3)

Attitude-Orbit Label Record

Words 1 and 00 are Integer; remaining words are real.

<u>Word</u>	<u>Function or Name</u>	<u>Attitude-Orbit Table Word Number</u>
1	40	
2	Attitude Orbit Identification	1
3	Start time of orbit - year (last two digits)	2
4	- month	3
5	- day	4
6	Eclipse start - day GMT	5
7	- millisecc of day	6
8	Eclipse end -day GMT	7
9	- millisecc of day	8
10	Orbit start - day GMT	9
11	- millisecc of day	10
12	Orbit end - day GMT	11
13	- millisecc of day	12
14	Epoch - day GMT	15
15	- millisecc of day	16
16	Orbit number	18
17	Semi-major axis -- earth radii	19
18	Eccentricity	20
19	Inclination -- degrees	21
20	Longitude of ascending node -- degrees	22
21	Rate of change of longitude of ascending node -- degrees/day = 0,	23
22	Argument of perigee -- degrees	24
23	Rate of change of argument of perigee -- degrees/day = 0,	25
24	Period -- minutes = 0,	26
25	Rate of change of period -- minutes/day = 0,	27
26	Spin rate -- degrees/sec = 0,	100
27	Rate of change of spin rate -- degrees/sec/day = 0	101

<u>Word</u>	<u>Function or Name</u>	<u>Attitude-Orbit Tape Word Number</u>
28	GEI spin axis	
	- Ax = 0	102
29		
	- Ay = 0	103
30		
	- Az = 0	104
31	Body spin axis	
	- Abx = 0	105
32		
	- Aby = 0	106
33		
	- Abz = 0	107
34	Corrected orbit number	
35-79	Spares set to 0.0	
80	<u>Integer</u> number of seconds since Jan. 1, 1967	

Attitude-Orbit Minute Record and Special Event Record

Word 1 is an integer, words 2-79 are real, word 80 is integer.

<u>Word</u>	<u>Function or Name</u>	<u>Attitude-Orbit Tape Word Number</u>
1	Integer Code Indicates Type of Record,	
2	Time - day count	1
3	Time - milliseconds of day (Greenwich Mean Time)	2
4	Local time - hours	3
5	- minutes	4
6	- tenths of minutes	5
7	Right ascension - degrees	6
8	Declination - degrees	7
9	Position vector - Px	8
10	- Py	9
11	- Pz	10
12	Solar vector - Sx	14
13	- Sy	15
14	- Sz	16
15	Latitude - degrees	17
16	Longitude - degrees	18
17	Height - kilometers (above the spheroid)	19
18	True anomaly - degrees	20
19	Sun earth satellite angle - degrees	21
20	Ideal body roll axis bXix	22
21	bXiy	23
22	bXiz	24
23	Ideal body pitch axis bYix	25
24	bYiy	26
25	bYiz	27

<u>Word</u>	<u>Function or Name</u>	<u>Altitude-Orbit Tape Word Number</u>
26	Ideal body yaw axis bZlx	28
27		29
28		30
29	Actual body roll axis bXx	49
30		50
31		51
32	Actual body pitch axis bYx	52
33		53
34		54
35	Actual body yaw axis bZx	55
36		56
37		57
38		76
39	Magnetic range -- earth radii	77
40	Magnetic latitude -- degrees	78
41	McIlwain parameter -- earth radii L	100
42	GSE transformation matrix	101
43	"	102
44	"	103
45	"	104
46	"	105
47	"	106
48	"	107
49	"	108
50	GSE spin axis Ax	118
51	GSE spin axis Ay	119
52	GSE spin axis Az	120
53		121
54	Puddle angle -- degrees	122

<u>Word</u>	<u>Function or Name</u>	<u>Altitude-Orbit Tape</u> <u>Word Number</u>
55	NO DATA flag	
56	SUSPECT DATA flag	124
57	Ecliptic latitude (degrees)	125
58	Ecliptic longitude (degrees) ($\lambda - \lambda_0$)	
59	Galactic latitude (degrees)	
60	Galactic longitude (degrees)	
61	Depression of horizon (degrees)	
62	Elevation of the moon (degrees)	
63	Lunar phase (degrees)	
64	Lunar radiance -- percent of full moon	
65	Lunar right ascension	
66	Lunar declination (degrees)	
67	Angular distance of sun above horizon (degrees)	
68	Shadow height above earth's surface (kilometers)	
69	Computed Geomagnetic Latitude in degrees	<i>just in degree lat</i>
70	Computed Geomagnetic Longitude in degrees	<i>SSB</i>
71	Computed Geomagnetic Time in seconds	<i>7-17-74</i>
72	Azimuth of the moon, degrees	
73	Normal component of lunar radiance, percent of zenith full moon	
74	0.0 Lat 130	
75	0.0 Lat 200	<i>future</i>
76	0.0 local time in minutes (see sub 4 & word 5 & sub 6.)	
77	0.0 <i>corrected geomag lat</i>	<i>SSB</i>
78	0.0 <i>corrected geomag lon</i>	<i>7-17-74</i>
79	0.0	
80	date: number of seconds since Jan. 1, 1967	

3JOB 14:18:06
 \$NOP *****DUMP IV/JCPT009/
 DATA IGNORED
 \$NOP ***** FILE 203 OF W00UT1 *****
 \$SAVE IN MS4
 \$EXEC DPHEX DS
 INPUT TAPE ON MS4
 DATA INPUT

FILE 203

0VPE JF 0-29905

08/08/67

FILE	1	RECORD	1	LENGTH	21676BYTES	F3F7404C	F6F7F7F3	F1000000	F0F7D000	F0F1F900	F0F10000	F0F10000	F0F10000
(	0)	54AC0000	007C0000	00000001	D262F0F9	F3F7404C	F6F7F7F3	F1000000	F0F7D000	F0F1F900	F0F10000	F0F10000	F0F10000
(	40)	F0F8F8F8	F0F10000	F1F9F9F8	F2F2F0F0	F30C0000	F2F2F0F0	F5F0F8F1	F4000000	F1F50000	F2F1F3F1	F2F1F3F1	F2F1F3F1
(	80)	F0F10000	F0F30000	F0F30000	F0F0F0F0	F0F0F0F0	F1E20000	F2000000	0121E7FE	000AD76D	00000044	00000044	00000044
(	120)	000B4E29	00000003	01440000	00000014	420C0000	473C773A	42110000	42180000	415AEF2	42DAF2DF	42DAF2DF	42DAF2DF
(	160)	4137ACAE	C4159DA0	C41178D9	43180A79	C766F277	475D55C6	4728795D	4138D26A	4232CEDE	432EE59B	432EE59B	432EE59B
(	200)	42F91C4D	425C8846	4037B2D0	C02D22D7	40F5C1BE	4C9776E6	C0227C0	C045FC47	40C6B9F8	4CA0A196	4CA0A196	4CA0A196
(	240)	BFF89A75	4037B2D0	C02D22D7	40F5C1BE	409776E6	C0227C0	C045FC47	40C6B9F8	40A0A196	BFF89A75	BFF89A75	BFF89A75
(	280)	41115D03	C125A85F	4111655A	C0B017CA	40A51698	404796F4	C0B3F13A	0047C0F8	C04871B2	C0000000	C0000000	C0000000
(	320)	C067D95C	40EAD818	41400000	41400000	41400000	00000000	00000000	423F0000	00000000	4211C705	4211C705	4211C705
(	360)	42530D85	4230FC8E	43162916	421A8672	42311065	C293AD71	408CFAA2	42A888CC	417B8230	4223FE2C	4223FE2C	4223FE2C
(	400)	00000000	C12565EF	4278AA86	44F63D3A	43115389	4C5C5E6F	00000000	00000000	00000000	00000000	00000000	00000000
(	440)	00000000	C1217F04	005C0000	00000002	00000000	00000000	00000000	00000000	03084F94	00000000	00000000	00000000
(	480)	00000000	00000000	00000001	00000001	00000001	41F7FF10	405C09AC	405C09AC	00000000	00000000	00000000	00000000
(	520)	00000000	00000000	C1217F3C	414FAA30	0308500A	405C09AC	00000000	00000000	00000000	00000000	00000000	00000000
(	560)	0308500A	000EF923	C3C84F94	00000000	41FD0A88	E7E74040	42640000	00000000	00000000	00000000	00000000	00000000
(	600)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(	640)	C1217F3C	00000002	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(	680)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(	720)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(	760)	00000000	00000000	424718E1	424718E1	424718E1	42464E09	00000000	00000000	00000000	00000000	00000000	00000000
(	800)	42000000	423085E0	4211C000	42190000	415B8596	42DB336D	4170F402	C4155E84	C4116D00	4336A420	4336A420	4336A420
(	840)	C766F2C4	475D557D	4728793E	4171A0F6	4232CE71	432DFA81	42FCBDA2	424FEF78	40423CEB	C021333F	C021333F	C021333F
(	880)	40F5C1BE	C0C49801	C0C314A7	40C4E11A	40C4E11A	40C49801	C01F7675	40423CEB	C021333F	40F50B1E	40F50B1E	40F50B1E
(	920)	40959F83	C0C49801	C0C314A7	40C4E11A	40C4E11A	40C49801	C01F7675	40423CEB	C021333F	40F50B1E	40F50B1E	40F50B1E
(	960)	40A5161C	4047968D	C0B3F0B0	C0A70F86	C0A871E8	C0C00000	C065D95C	40EAD818	411138E2	C0B61793	C0B61793	C0B61793
(	1000)	41400000	00000000	C0C00000	423F0000	00000000	00000000	00000000	00000000	43167837	421A499F	421A499F	421A499F
(	1040)	4230F3E2	C293A63D	408D5D24	42AA8B1E	417B6FCA	42274A24	00000000	00000000	4279485A	44F70D31	44F70D31	44F70D31
(	1080)	43112051	405C04E3	C0000000	00000000	00000000	00000000	00000000	00000000	01217F40	005C0000	005C0000	005C0000
(	1120)	00000000	00000000	C0CE9F3C	00000000	0308B138	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(	1160)	00000000	00000000	4049A161	4049A161	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(	1200)	00000000	00000000	C07C0000	00000000	031EF090	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(	1240)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(	1280)	00000000	00000000	C000007C	00000081	F3C34040	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(	1320)	42458402	00000000	C0CEFDCA	005C0000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(	1360)	00000000	00000000	C0000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(	1400)	00000000	00000000	01217F67	414FAA30	0308F8A6	4C5C09AC	01440000	00000000	42D00000	47309486	47309486	47309486
(	1440)	42110000	421A0000	41601500	42DB7546	41AA78F9	4C15C9AC	4411513A	435205CA	C766F310	475D5534	475D5534	475D5534
(	1480)	4728791E	41AB7B21	4232D01E	432D0C24	41100536	4241FFEC	404C98C6	001507B5	40F35C92	40941AE8	40941AE8	40941AE8
(	1520)	C0C6D24C	C03FC0B8	40C23F4F	409F2E2F	C02F54BE	404C98C6	001507B5	40F35C92	40941AE8	C0C6D24C	C0C6D24C	C0C6D24C
(	1560)	C03FC0B8	40C23F4F	409F2E2F	C02F54BE	411119B1	414C12E5	411137FA	C0B6181C	40A5159D	40479686	40479686	40479686
(	1600)	C4B3FC25	C0A71A03	C048721F	00000000	C065D95C	4CEADE18	41400000	41400000	41400000	00000000	00000000	00000000
(	1640)	00000000	423F0000	C0000000	42186705	424E0333	423B5E1D	4151B462	421A0B39	42310B07	C2939CFE	C2939CFE	C2939CFE
(	1680)	408DB95E	42AA8B6F	417B5964	4224EB4D	00000000	414C5A88	4279E876	44F70F48	4310ED1F	405C0F0F	405C0F0F	405C0F0F
(	1720)	00000000	00000000	00000000	00000000	00000000	00000000	01217F70	005C0000	00000000	00000000	00000000	00000000
(	1760)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(	1800)	405C09AC	405C09AC	00000000	00000000	00000000	00000000	01217F8B	414F0A30	030984FE	405C09AC	405C09AC	405C09AC
(	1840)	007C0000	00000000	C0C00000	00000000	C30984FE	CCCE9F72	C309842A	00000000	00000000	F3C34040	F3C34040	F3C34040

23

190